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# NOTICE OF ALLOWANCE AND FEE(S) DUE

877 7590 12/23/2010

IBM CORPORATION, T.J. WATSON RESEARCH CENTER P.O. BOX 218

YORKTOWN HEIGHTS, NY 10598

EXAMINER CHUMPITAZ, BOB R

ART UNIT PAPER NUMBER

3629 DATE MAILED: 12/23/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/697,184	10/30/2003	Asaf Adi	IL920030025US1	8188

TITLE OF INVENTION: METHOD AND SYSTEM FOR ACTIVE MONITORING OF DEPENDENCY MODELS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/23/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

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10/697,184 TITLE OF INVENTION	10/30/2003 I: METHOD AND SYST	TEM FOR ACTIVE ?	Asaf Adi MONITORING OF DEP	ENDE	NCY MODELS	II.	920030025US1	8188
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nonprovisional	NO	\$1510	\$300		\$0		\$1810	03/23/2011
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"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATZ less an assignce is ident h in 37 CFR 3.II. Comp	inge of Corresponden  Indication form and. Use of a Custom  A TO BE PRINTED	(I) the names of or agents OR, all (2) the name of registered attorn 2 registered pate listed, no name v ON THE PATENT (prin mee data will appear on NOT a substitute for file.	f up to ternativ a single ey or a ent attor will be t or typ t the pring an	e firm (having as a r igent) and the names meys or agents. If no printed.	nemb of up nam	er a 2	ocument has been filed for
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	P.O. BOX 218		ART UNIT	PAPER NUMBER		
	YORKTOWN HE	IGHTS, NY 10598				

DATE MAILED: 12/23/2010

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1222 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1222 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

#### Application No. Applicant(s) 10/697.184 ADI ET AL. Notice of Allowability Examiner Art Unit BOR CHUMPITAZ 3629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTQL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFB 1.313 and MPEP 1308. This communication is responsive to 8/17/2010. The allowed claim(s) is/are 2-4,8-10 and 27-31. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) | All b) \( \subseteq \text{Some\*} \) c) \( \subseteq \text{None} \) of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. \_\_\_ 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. 

A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) Thereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. 

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413). Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. T Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. 

✓ Other drawings submitted on 10/30/03 and 8/27/09 are accepted. /BOB CHLIMPITAZ/ /Jamisue A Plucinski/ Examiner, Art Unit 3629 Supervisory Patent Examiner, Art Unit 3629

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)

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#### Detailed Action

# Status of the Application

Claims 2-4, 8-10 and 27-31 are allowed.

## Drawings

The drawings submitted on 10/30/03 and 8/27/09 have been approved.

### Reasons for Allowance

The following is an examiner's statement of reasons for allowance: Examiner agrees with Applicant's response and arguments submitted on August 17, 2010.

In the remarks submitted on 8/17/10, Applicant argues the following:

- (1) Claims 2-4, 8, 27, 28 and 30, were rejected under 35 U.S.C. § 103(a) as being unpatentable over Mori et al., U.S. Patent Application Publication No. 2003/0055695 (Mori), in view of Etzion et al., U.S. Patent No. 6,604,093 (Etzion) and in further view of Kevin Crowston, A taxonomy of organizational dependencies and coordination mechanism (Crowston). However, Etzion et al. is inapplicable under section 102(e) on the same grounds of common inventorship, and furthermore is disqualified as prior art under 35 U.S.C. §103(c) on account of having the same assignee as the present patent application.
- (2) Claims 9-10 were rejected under 35 U.S.C. § 103 (a) as being unpatentable over Mori in view of Etzion and Crowston, and further in view of H. Herbst, G. Knolmayer, T. Myrach and M. Schlesinger, The specification of business rules: A comparison of selected methodologies,

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(Herbst) and Nye, U. S. Patent No. 6,341,279 (Nye). With the removal of Etzion for the reasons presented above, this rejection is believed to be overcome.

(3) Claims 29 and 31 were rejected under 35 U.S.C. § 103 (a) as being unpatentable over Mori in view of Etzion and Crowston, and further in view of C. Gill, T. Harrison, and C. O'Ryan, Using The Real-Time Event Service (Gill). With the removal of Etzion for the reasons presented above, this rejection is believed to be overcome.

Applicant's arguments (1)-(3), have been fully considered and are persuasive. The rejections directed to claims 2-4, 8-10 and 27-31 has been withdrawn. Furthermore, after a detailed examination of the applicable prior art references previously cited and in view of the currently updated prior art search, the Examiner believes the subject matter being claimed in claims 2-4, 8-10 and 27-31, specifically independent claims 27, 28 and 30 are allowable. The key feature of the patent application, not found in any of the references are highlighted hereinbelow: "receiving as input in the active dependency integration unit events relating to business components in the business model, for processing together with a definition of dependencies among the business components in order to monitor a propagated impact of the events among the business components, including receiving a first event relating to a first business component; responsively to the first event and to the dependencies, propagating a second event indicative of a change to at least a second business component, wherein the dependencies between the first business component and the second business component comprise a compound dependency having two different simple dependency types; passing the second event to the situation awareness unit; responsively to the second event, detecting a situation in the situation awareness unit; and responsively to the situation, conveying a third event from the situation

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awareness unit to the active dependency integration unit and outputting a functional state of the business model responsively to at least the third event." The claimed limitations where not known at the time of the invention and would not have been obvious to one of ordinary skill in the art in view of the applicable cited prior art references and updated search history, whether individually or in an obviousness combination rejection. Therefore, claims 2-4, 8-10 and 27-31 of the present case are in condition for allowance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BOB CHUMPITAZ whose telephone number is (571)270-5494. The examiner can normally be reached on M-TH between 7am - 5:30pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JAMISUE PLUCINSKI can be reached on 571-272-6811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/B. C/ Examiner, Art Unit 3629

/Jamisue A. Plucinski/ Supervisory Patent Examiner, Art Unit 3629